


Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08688-048002	Application No. 10/828,959
	Applicant Kethinni G. Chittibabu et al.		
	Filing Date April 21, 2004	Group Art Unit 1753	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
AD	AA	4,232,108	11/04/80	Dessauer	—	—	
AD	AB	4,295,329	10/20/81	Windley	—	—	
AD	AC	4,927,721	05/22/90	Gratzel et al.	—	—	
AD	AD	5,728,487	03/17/98	Gratzel et al.	—	—	
AD	AE	5,830,597	11/3/1997	Hoffmann et al.	—	—	
AD	AF	6,075,203	06/13/00	Wang et al.	—	—	
AD	AG	6,291,763 B1	9/18/2001	Nakamura	—	—	
AD	AH	6,444,189	09/03/02	Wang et al.	—	—	
AD	AI	2002/0042343	04/11/02	Akui et al.	—	—	
AD	AJ	2003/0140959	7/2003	Gaudiana et al.	—	—	
AD	AK	2003/0188777	10/2003	Gaudiana et al.	—	—	
AD	AL	2003/0189402	10/2003	Gaudiana et al.	—	—	
AD	AM	2003/0192584	10/2003	Beckenbaugh et al.	—	—	
AD	AN	2003/0192585	10/2003	Beckenbaugh et al.	—	—	
AD	AO	2003/0230337	12/2003	Gaudiana et al.	—	—	
AD	AP	2003/0025933	2/2004	Chittibabu et al.	—	—	
AD	AQ	2004/0025934	2/2004	Chittibabu et al.	—	—	
AD	AR	2004/0031520	2/2004	Ryan	—	—	

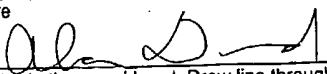
Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
AD	AS	JP 7-116503	5/9/1995	Japan	—	—	✓	
AD	AT	EP 993050	4/12/2000	EPO	—	—	—	—

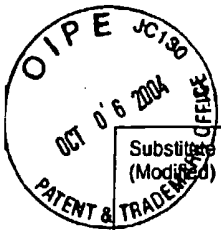
Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
AD	AU	Cao et al, "A Solid State, Dye Sensitized Photoelectrochemical Cell," J. Phys. Chem., vol. 99, pages 17071-17073, (1995).

Examiner Signature 	Date Considered 12/4/04
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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
ADD	AV	Bach et al., "Solid-state dye-sensitized mesoporous TiO <sub>2</sub> solar cells with high photon-to-electron conversion efficiencies", <i>Nature</i> , Volume 395, pp. 583-585, October 1998.
ADD	AW	Carotta et al., "Preparation and Characterization of Nanostructured Titania Thick Films", <i>Advanced Materials</i> , Volume 11, No. 11, pp. 943-946, 1999.
ADD	AX	Gomez et al., "Nanocrystalline Ti-oxide-based solar cells made by sputter deposition and dye sensitization: Efficiency versus film thickness", <i>Solar Energy Materials &amp; Solar Cells</i> , Volume 62, pp. 259-263, 2000.
ADD	AY	Green, M.A., "Photovoltaics: technology overview", <i>Energy Policy</i> , Volume 28, pp. 989-998, 2000.
ADD	AZ	Gregg, Brian A., "Bilayer molecular solar cells on spin-coated TiO <sub>2</sub> substrates", <i>Chemical Physics Letters</i> , Volume 258, pp. 376-380, 1996.
ADD	AAA	Hagfeldt et al., "Molecular Photovoltaics", <i>Accounts of Chemical Research</i> , Volume 33, pp. 269-277, 2000.
ADD	ABB	Li et al., "Titanium dioxide films for photovoltaic cells derived from a sol-gel process", <i>Solar Energy Materials and Solar Cells</i> , Volume 56, pp. 167-174, 1999.
ADD	ACC	Mikoshiba et al., "Highly efficient photoelectrochemical cell with novel polymer gel electrolytes", Conference Organizers, 3 pages. (Date Unknown).
ADD	ADD	Nasr et al., "Role of Iodide in Photoelectrochemical Solar Cells. Electron Transfer between Iodide Ions and Ruthenium Polypyridyl Complex Anchored on Nanocrystalline SiO <sub>2</sub> and SnO <sub>2</sub> Films", <i>J. Phys. Chem. B</i> , Volume 102, pp. 4944-4951, 1998.
ADD	AEE	O'Regan et al., "A low-cost, high-efficiency solar cell based on dye-sensitized colloidal TiO <sub>2</sub> films", <i>Nature</i> , Volume 353, pp. 737-740, October 1991.
ADD	AFF	Park et al., "Comparison of Dye-Sensitized Rutile- and Anatase-Based TiO <sub>2</sub> Solar Cells", <i>J. Phys. Chem. B</i> , Volume 104, pp. 8989-8994, 2000.
ADD	AGG	Petritsch et al., "Dye-based donor/acceptor solar cells", <i>Solar Energy Materials &amp; Solar Cells</i> , Volume 61, pp. 63-72, 2000.
ADD	AHH	Phani et al., "Titania solar cells: new photovoltaic technology", <i>Renewable Energy</i> , Volume 22, pp. 303-309, 2001.
ADD	AII	Pichot et al., "Low-Temperature Sintering of TiO <sub>2</sub> Colloids: Application to Flexible Dye-Sensitized Solar Cells", <i>Langmuir</i> , Volume 16, pp. 5626-5630, 2000.
ADD	AJJ	Pichot et al., "The Photovoltage-Determining Mechanism in Dye-Sensitized Solar Cells", <i>J. Phys. Chem. B</i> , Volume 104, pp. 6-10, 2000.
ADD	AKK	Ruile et al., "Novel sensitizers for photovoltaic cells. Structural variations of Ru (II) complexes containing 2,6-bis (1-methylbenzimidazol-2-yl) pyridine", <i>Inorganica Chimica Acta</i> , Volume 261, pp. 129-140, 1997.
ADD	ALL	Schwarzburg et al., "Origin of Photovoltage and Photocurrent in the Nanoporous Dye-Sensitized Electrochemical Solar Cell", <i>J. Phys. Chem. B</i> , Volume 103, Number 28, pp. 5743-5746, 1999.
ADD	AMM	Smestad, Greg P., "Education and solar conversion: Demonstrating electron transfer", <i>Solar Energy Materials and Solar Cells</i> , Volume 55, pp. 157-178, 1998.
ADD	ANN	Sommeling et al., "Flexible Dye-Sensitized Nanocrystalline TiO <sub>2</sub> Solar Cells", Conference Organizers, 5 pages. (Date Unknown).
ADD	AOO	Trupke et al., "Dependence of the Photocurrent Conversion Efficiency of Dye-Sensitized Solar Cells on the Incident Light Intensity", <i>J. Phys. Chem. B</i> , Volume 104, pp. 11484-11488, 2000.

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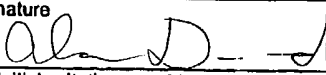
Sheet 1 of 1

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	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
ADD	AL	2000-294306 A	20/10/2000	Japan	—	—		✓
ADD	AM	WO/01/25316 A1	12/04/2001	WIPO	—	—	—	—
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
ADD	AQ	Copy of IPER mailed September 2, 2004
	AR	
	AS	
	AT	

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